

AMENDMENT

Please amend the application as indicated hereafter.

To the Claims:

Claim 1 (previously presented) An earphone structure, comprising:

a case;
a cover, mounted on an opening of the case, and defining a space together with the case;

a main speaker fixed on the cover, and adapted for generating a sound wave;
a composite chamber, accommodated in the space defined by the case and the cover, and fixed on the cover, wherein the composite chamber defines a composite room together with the cover on which it is fixed; and

a plurality of sub-speakers fixed on sidewalls of the composite chamber for generating sound waves and mixing the generated sound waves in the composite chamber so as to configure a composite sound field in the composite room,

wherein the sound wave generated by the main speaker and the sound waves generated by the sub-speakers are propagated out of the earphone through the cover.

Claim 2 (original) The earphone structure of claim 1, wherein the sub-speakers comprise a first channel speaker and a second channel speaker, which are disposed on two opposite sides of the composite chamber.

Claim 3 (original) The earphone structure of claim 2, wherein a position where the first channel speaker is disposed at and a position where the second channel speaker is disposed at are not symmetrical.

Claim 4 (original) The earphone structure of claim 2, wherein the sub-speakers further comprises a subwoofer speaker.

Claim 5 (original) The earphone structure of claim 4, wherein the subwoofer speaker is disposed on a back side of the composite chamber.

Claim 6 (original) The earphone structure of claim 1, wherein the composite chamber is a hollow column.

Claims 7-15 (cancelled)

Claim 16 (original) The earphone structure of claim 1, wherein the earphone structure receives a signal which has been processed by a sound field simulation process for generating a simulation sound field by the sub-speakers and the main speaker inside the.

Claim 17 (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers.

Claim 18 (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers and a delay process.

Claims 19-54 (cancelled)

Claim 55 (currently amended) ~~An earphone structure disposed inside a space defined by a case and a cover, comprising a composite chamber defining a composite room therein, wherein the case and the cover jointly cover the composite chamber for forming the earphone structure, and The earphone structure of claim 1, wherein the composite chamber receives a plurality of sound source signals from different directions and respectively applied to the sub-speakers, such that a composite sound field is formed by the sound source signals in the composite room.~~

Claim 56 (original) The earphone structure of claim 55, wherein the sound source signals at least comprise a first sound source signal and a second sound source signal, which are originated at opposite sides of the composite chamber, respectively.

Claim 57 (original) The earphone structure of claim 56, wherein a location where the first sound source signal is originated at and a location where the second sound source signal is originated at on the opposite sides of the composite chamber are not

symmetrical.

Claim 58 (original) The earphone structure of claim 56, wherein the sound source signals further comprise at least a subwoofer sound source signal.

Claim 59 (original) The earphone structure of claim 58, wherein the subwoofer sound source signal is originated at a back side of the composite chamber.

Claim 60 (original) The earphone structure of claim 55, wherein the sound source signals are the signals which have been processed by a sound field simulation process for generating a simulation sound field in the composite chamber.

Claim 61 (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals.

Claim 62 (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals and a delay process.

Claims 63-70 (cancelled)